

Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application.

1. (Withdrawn) In combination, a single ply membrane roofing system secured to a roof deck; said system comprising a first flexible membrane with a longitudinally extending edge secured to said roof deck by transversely spaced fasteners, said membrane system having a second flexible membrane with an edge portion overlapping said first membrane edge and weld bonded to said first membrane via a continuous weld bond along the edge of said second membrane such that first membrane edge projects forwardly from said bond to define a fastening projection for said fasteners extending forwardly from said weld bond, and having the improvement comprising:

a. an adhesive coating over said fastening projection and fasteners, extending essentially from said weld bond forwardly to provide a continuous adhesive coating over said first membrane projection and fasteners providing a substantially monolithic bond comprising said weld bond and adhesive coating.

2. (Withdrawn) The combination of claim 1 wherein said adhesive coating extends down the front edge of said first membrane to provide a coating stepping portion extending down past the front edge of said first membrane to the level of said deck between said first membrane and the underside of said second membrane.

3. (Withdrawn) The combination of claim 1 wherein said adhesive coating extends forwardly of said front edge of said first membrane for a short distance between said second membrane and deck.

4. (Currently amended) A method of securing a singly ply membrane roofing system to a roof deck; said system comprising a first membrane with a longitudinally extending first member free edge to be secured to said roof deck by transversely spaced fasteners comprising fastener members extending through fastener plates having surrounding edge face surfaces, said ~~membrane~~ roofing system having a second membrane with an a second membrane edge portion overlapping said first membrane free edge and bonded to said first membrane via a continuous weld bond along the edge of said second membrane such that said first membrane edge projects forwardly from said weld bond to define a fastening projection extending forwardly from said first membrane free edge under said second membrane, comprising:

a. with said roofing system applied to said roof deck and while maintaining said second membrane in a peeled upwardly back position from said weld bond and said fastening projection, placing said fastener plates and said spaced-apart fasteners fastener members at spaced positions into said roof deck to mechanically secure said fastening projection of said first membrane to said roof deck;

b. with said second membrane in said peeled back position applying a liquid adhesive over said first membrane fastener projection fastening edge and over and around said fastener plates and fastener members from said weld bond forwardly to provide a continuous adhesive coating on said first membrane projection and over said fastener members fastener and said fastener plates and around said fastener plate edge face surfaces; and

c. lowering said second membrane to cover and adhere to said fastening projection and said fastener fasteners and provide a substantially continuous monolithic bond comprised of said weld bond and said adhesive coating.

5. (Currently amended) The method of claim 4 wherein said adhesive coating flexibly extends down ~~said the front~~ free edge of said first membrane to the level of said roof deck between the said first membrane free edge ~~of said first membrane~~ and the underside of said second membrane.

6. (Currently amended) The method of claim 5 wherein said adhesive coating is extends extended forwardly of said first membrane free ~~front edge of said first membrane~~ for a short restricted distance between said second membrane and said roof deck short of the forward extent of said second membrane to accommodate a second membrane tautening procedure.

7. (Currently amended) A method of constructing a single ply membrane roofing system applied to a roof deck; said roofing system comprising a first membrane with a longitudinally extending ~~front~~ first membrane free edge to be secured to said roof deck by transversely spaced ~~fasteners~~ fastener systems comprising fastener members extending through fastener plates having edge face surfaces, said ~~membrane roofing~~ system having a second membrane with an a second membrane free edge ~~portion~~ rearwardly overlapping said first membrane free edge and hot air or dielectric weld bonded to said first membrane free edge via a continuous weld bond along ~~the rear edge of~~ said second membrane free edge such that said first membrane free edge projects forwardly from said weld bond to define a fastening ~~projection~~ projection, extending forwardly from said first membrane free edge edge, which is bordered by a fastening projection generally vertical marginal edge face surface, comprising:

a. with said system applied to said roof deck, maintaining said second membrane in a peeled upwardly back position from said weld bond and said fastening projection and placing applying transversely spaced apart said fastener members ~~fasteners~~ and said fastener plates at

transversely spaced positions ~~into said deck~~ to mechanically secure said fastening projection of said first membrane to said roof deck;

b. with said second membrane in said peeled back position applying a fast drying liquid adhesive over said fastening edge projection and said fastener plates and said fasteners fastener members, and around said fastener plate edge face surface, and to extend down said marginal edge face surface of said first membrane fastening projection ~~from said bond forwardly~~ and onto only a restricted portion of said roof deck forwardly adjacent of said first membrane to provide a continuous first adhesive coating on said ~~first membrane~~ fastening projection, said fastener plates, said fastener members fasteners, and a portion of said roof deck forwardly adjacent to said first membrane fastening projection, while also applying a second an adhesive coating to the underside of said second membrane to an extent to generally cover the said first adhesive coating applied to said fastening ~~projection~~ projection, said fastener plates, said fastener members, and said roof deck; and

c. lowering said second membrane to cover and ~~adhere~~ join said second adhesive coating to said first adhesive coating on said fastening projection, said fastener plates and said fastener members fasteners, and to fold down along said first membrane fastening projection marginal edge surface to capture liquid adhesive between said fastening projection marginal vertical edge face surface and said folded down portion of said second membrane, while also adhering to said roof deck portion.

8. (New) The method of claim 7 wherein said first membrane projection has cavities around said fastener plate edge face surface which are filled with said first liquid adhesive coating.

9. (New) A method of constructing a single ply membrane roofing system applied to a roof deck; said system comprising a first membrane with a longitudinally extending first membrane free edge to be secured to said roof deck by fasteners comprising fastener members extending through fastener plates having edge face surfaces, said system having a second membrane with a second membrane free edge rearwardly overlapping said first membrane free edge and weld bonded to said first membrane free edge via a continuous weld bond along said second membrane free edge such that said first membrane free edge projects forwardly from said weld bond under said second membrane free edge to define a fastener projection extending forwardly from said first membrane free edge which is bordered by a fastener projection generally vertical marginal edge face surface, comprising:

a. with said roofing system applied to said roof deck, maintaining said second membrane in a peeled back position from said weld bond and said fastener projection and applying said fastener members and said fastener plates to said roof deck to mechanically secure said fastener projection of said first membrane to said roof deck;

b. with said second membrane in said peeled back position applying a fast drying liquid adhesive over said fastener plates and said fastener members, and around said fastener plate edge face surfaces, and to extend down said marginal substantially vertical edge face surface of said first membrane fastening projection to provide a continuous first adhesive coating on said fastener projection, said fastener plates and said fastener members; and

c. lowering said second membrane to cover and adhere to said coating on said first membrane fastener projection, said fastener plates and said fastener members, and folding said second membrane down along said fastening projection marginal substantially vertical edge face surface to capture said adhesive coating between said fastening projection marginal substantially vertical edge face surface and said folded down portion of said second membrane.

10. (New) A method for constructing a single ply membrane roofing system applied to a roof deck; said system comprising a series of first membranes with longitudinally extending first membrane free edges to be secured to said roof deck by fasteners comprising fastener members extending through fastener plates having generally vertical edge face surfaces, said roofing system having also a series of second membranes with second membrane free edges rearwardly overlapping said first membrane free edges and weld bonded to said first membrane free edges via continuous weld bonds along said second membrane free edges such that said first membrane free edges project forwardly from said weld bonds under said second membrane free edges to define first membrane fastener projections extending forwardly under said second membrane free edges, said fastening projections being bordered by fastener projection generally vertical marginal edge face surfaces, comprising:

a. with said roofing system applied to said roof deck, maintaining one of said second membrane free edges in a peeled back position from one of said weld bonds and one of said first membrane fastener projections and applying one of said fastener members and one of said fastener plates to said one of said fastener projections and said roof deck to mechanically secure said fastener projection of said one of said first membranes to said roof deck;

b. with said one of said second membranes in said peeled back position applying a fast drying liquid adhesive over said fastener plate and said fastener member, and along said generally vertical fastener plate edge face surface, and to extend down said marginal substantially vertical edge face surface of said one of said fastening projections to provide a first adhesive coating on said one of said fastener projections, said fastener plate and said fastener member from said one of said weld bonds forwardly; and

c. lowering said one of said second membranes in said peeled back position to cover and adhere to said coating on said one of said first membrane fastener projections, said one of said fastener plates and said one of said fastener members, and folding said one of

second membranes down along said one of said fastening projections marginal substantially vertical edge face surfaces to provide a folded down portion and capture said adhesive coating between said one of said fastening projection marginal substantially vertical edge face surfaces and said folded down portion of said one of said second membranes.

11. (New) The method of claim 10 in which said liquid adhesive coating is applied to said roof deck for a restricted distance immediately adjacent said one of said fastening projection vertical edge face surfaces and short of the longitudinal length of said one of said second membranes to allow a second membrane tautening process.